



State of Louisiana

Department of Environmental Quality



KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

Certified Mail No.

Mr. J. A. Stroink
Refinery Manager
Chalmette Refining, L.L.C.
Post Office Box 1007
Chalmette, Louisiana 70044

Agency Interest No. 1376
Activity No.: PER19960014

RE: Part 70 Initial Operating Permit, Sulfur Recovery Unit, Hydrodesulfurization, Amine Treating Unit, Sour Water Stripper, Waste Gas System, Benzene Recovery Unit and Liquefied Petroleum Gas Recovery, Chalmette Refinery, Chalmette Refining, L.L.C., Chalmette, St. Bernard Parish, Louisiana

Dear Mr. Stroink:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011 unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006

Permit No.: 3023-V0

Sincerely,

Chuck Carr Brown,
Assistant Secretary
SGQ

cc: EPA Region VI

OFFICE OF ENVIRONMENTAL SERVICES • P.O. BOX 4313 • BATON ROUGE, LOUISIANA 70821-4313



AN EQUAL OPPORTUNITY EMPLOYER



**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SULFUR RECOVERY UNIT, HYDRODESULFURIZATION, AMINE TREATING
UNIT, SOUR WATER STRIPPER, WASTE GAS SYSTEM, BENZENE RECOVERY
UNIT AND LIQUEFIED PETROLEUM GAS RECOVERY
AGENCY INTEREST NO. 1376
CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY
CHALMETTE, ST. BERNARD PARISH, LOUISIANA**

I. Background

Chalmette Refining, L.L.C. (CRLLC) is a joint venture between ExxonMobil Corporation (EMOC) and Petroleos de Venezuela (PDV), the Venezuelan National Oil Company. Chalmette Refinery is located on the left descending bank of Mississippi River at Mile 89 above Head-of-Passes at Chalmette and is operated by EMOC. The facility operates under a consolidated State Permit No. 2500-00005-02 dated November 18, 1988. Other Permit Nos. 2226(M-3), 11/27/1996; 2622, 8/10/1999 and PSD-LA-199(M-4), 10/11/1993 were also issued in the past. Other permits were also issued since 1988. This permit deals with the Sulfur Recovery Unit (Unit 80), Hydrodesulfurization (Unit 33), Amine Treating Unit (Unit 34 & 82), Sour Water Stripper (Unit 62), Waste Gas System (Unit 5), Benzene Recovery Unit (Unit 58) and Liquefied Petroleum Gas Recovery (Unit 92).

II. Origin

This review was initiated by an application and Emission Inventory Questionnaire (EIQ) submitted on October 14, 1996, an updated and revised application and EIQ dated November 14, 2005 for the Sulfur Recovery Unit, Hydrodesulfurization, Amine Treating Unit, Sour Water Stripper, Waste Gas System, Benzene Recovery Unit and Liquefied Petroleum Gas Recovery. Additional information as of February 8, 2006 was also received.

III. Description

Chalmette Refinery is an integrated crude operation (high conversion) which includes crude distillation, catalytic reforming, fluid catalytic cracking (FCC), hydrocracking, HF alkylation, delayed coking, and aromatics processing units. The refinery is capable of producing gasoline, diesel, benzene/toluene/xylene (BTX), distillates, and molten sulfur as well as by-products such as petroleum coke and LPG.

Sulfur Recovery Unit (SRU) - This unit consists of Acid Gas Wash Column, a Reactor Section, a Tail Gas Cleanup Section (TGCU), Thermal Oxidizer (two trains common vent). The primary functions of these sections are to process hydrogen sulfide rich gas streams received from the Sour Water Stripper (SWS) and the Amine Treating Unit (AMU). The SRU removes the sulfur compounds and produces molten sulfur for sale. The capacity of this unit is 835 long tons per day.

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Acid Gas Wash Column (AGWC) – This column scrubs the incoming amine acid gas with water to remove ammonia. The absorbed ammonia rich water is sent to the Sour Water Flash Drum in the Waste Gas System. The treated amine gas is sent to the Reaction Furnace.

Reaction Section – This section consists of three main subsystems: Claus, Hydrogenation and Contact Condenser. In the Claus section combustion and catalytic action is used to convert acid gas from the Amine Unit, SWS, and recycled TGCU gas to molten sulfur. The sulfur is condensed and sent to a storage pit; the remaining gases are routed to the hydrogenation section for further treating. In the hydrogenation section the remaining sulfur compounds are converted to hydrogen sulfide via catalytic reaction in the presence of hydrogen. The gases are then cooled and sent to the contact condenser where they are further cooled by a circulating process water stream prior to the gas entering the TGCU section.

The TGCU section recovers hydrogen sulfide for recycle to the Reaction Section. An MDEA scrubber tower selectively absorbs the hydrogen sulfide which is removed in the stripper and sent to the AGWC. The unabsorbed gases from the MDEA column are sent to the thermal oxidizer.

The thermal oxidizer combusts the waste gases with air at high temperature to convert all of the sulfur compounds to sulfur dioxide as well as convert any entrained carbon monoxide to carbon dioxide.

Hydrodesulfurization (HDS) Unit – This unit consists of a Reaction Section and a Stripper Section. The primary function of this unit is to process feed streams received from several sources: No. 1 and 2 Crude/Coker Units, Hydrocracker Unit, FCCU, and several tanks. The HDS removes sulfur and other impurities to produce a finished diesel product that is sent to storage for sales.

In the Reactor Section the feed is heated, pressurized and mixed with hydrogen where in the presence of a catalyst, chemical reactions occur which help to remove impurities. From the Reactor the product flows to a separator where the hydrogen gas is separated and recycled. The liquid hydrocarbons are sent to the Stripper Section.

In the Stripper Section unstable gases and a liquid stream containing hydrogen sulfide are removed. The product stream is sent to diesel storage.

Amine Treating Unit (AMU) – This unit consists of an Absorption Section and a Regeneration Section. The primary function of this unit is to process feed streams

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received from a number of process units: HDS, CFHT, LEP, PT3, RF1, HCU, WGS, GHU, FCC, CK1 and CK2 to remove hydrogen sulfide and carbon dioxide by absorption in diglycolamine (DGA). The unit regenerates the DGA for recycle and for use in other units.

In the Absorption Section the treated DGA is used to remove hydrogen sulfide and carbon dioxide from the various feed streams entering the unit. The feed is cooled and then sent to a separator where the hydrocarbons are removed prior to the gases entering a contactor where the absorption occurs. The treated overhead gas is sent to the Refinery Fuel Gas System for use in the gas burning equipment. Any recovered liquid hydrocarbons are sent to the liquids recovery system. The DGA containing the contaminants is sent to the Regeneration Section.

In the Regeneration Section the absorbed hydrogen sulfide and any entrained hydrocarbons are removed from the DGA and the DGA is recycled back to the Absorption Section. The feed DGA is first sent to a flash drum where hydrocarbon gases are removed. The stream then enters a stripper column where steam is used to remove the hydrogen sulfide; these gases are routed to the SRU for further processing. Any condensed hydrocarbons are sent back to the stripper. The treated DGA is cooled, filtered and returned to the Absorption Section.

Sour Water Stripper (SWS) – This unit consists of a Degasser Section and a Stripper Section. The primary function of this unit is to process sour water feed streams from most of the process units at the refinery. The SWS removes hydrogen sulfide and ammonia which are sent to the SRU for treatment. The stripped water is recycled back to several process units.

In the Degasser Section both gaseous and liquid hydrocarbons are removed from the incoming feed. The hydrocarbon gases are sent to the WGS while the liquids are sent to the refinery slop oil system. The water is sent to the Stripper Section.

In the Stripper Section hydrogen sulfide and ammonia are removed from the sour water feed streams by contact with hot vapors from the reboiler. The removed gases are cooled and sent to the SRU for treatment. The cleaned water is recycled back to several process units.

Waste Gas System (WGS) – This unit consists of a High Pressure Train and a Low Pressure Train. The primary function of this unit is to collect all low pressure waste gas streams in the refinery. The WGS increases the pressure of the gases and sends them to the Amine Unit for fuel gas treatment.

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The Low Pressure Train receives the lowest pressure gases and the High Pressure Train receives the slightly high pressure gases. In each train the gases first enter a knockout drum to remove any liquids; then enter the first stage of compression. Following the first stage compression the gases pass through another knockout drum to remove any condensed liquids and then enter the second stage of compression before combining the gases from both trains and entering a last knockout drum. The compressed gases are sent to the Amine Unit for treatment. Recovered liquids are separated into a water fraction that is sent to the SWS and a hydrocarbon fraction that is sent to the Crude Unit for further treatment.

Benzene Recovery Unit (BRU) – This unit consists of a Benzene Stripper and a BRU Skid. The primary function of this unit is to remove gas and liquid hydrocarbons, including benzene, from the process water from a number of units in the refinery.

The Benzene Stripper uses steam to strip benzene and other volatile organic compounds from the waste water stream. The recovered water is sent to the API Separator at the WWTP. The stripped VOCs, benzene and steam are sent to the BRU Skid.

The BRU skid processes the Benzene Stripper overhead to separate the water from the benzene and other VOCs. The water is recycled back to the Benzene Stripper. The recovered hydrocarbons are sent to the WGS while the liquids are sent to the refinery slop system.

Liquefied Petroleum Gas Recovery (LPG) – This unit consists of a Compressor and a Separator. The primary function of this unit is to produce a fuel gas stream for use in the refinery fuel gas system and to recover LPG liquids that are sent to the Light Ends Plant for further processing.

Sweetened fuel gas from the AMU contactors enters a knockout drum to remove any entrained liquids before entering the LPG compressor. The compressor increases the pressure of the gas. Following compression the gas is cooled and any entrained condensate removed. The compressed fuel gas is sent to the refinery fuel system.

The recovered liquids are sent to a separator. In the separator, water is removed and sent to the SWS; gases are combined with the compressed fuel gas and liquids are sent to the Light Ends Plant for further processing.

Chalmette Refining, L.L.C proposes to modify the facility in order to produce Ultra Low Sulfur Diesel at the facility. This project is being undertaken on the recent promulgated final rule titled "Control of Air Pollution from New Motor Vehicles: Heavy Duty Engine

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and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements" (Heavy Duty Engine and Highway Diesel Fuel Rule) on January 18, 2001.

Ultra Low Sulfur Diesel (ULSD) Project: The proposed project consists of the addition of a new larger HDS Reactor and a new Recycle Gas Scrubber as well as associated fugitive components for hydrogen makeup/recycle compressors, piping for accessories and tanks.

Sulfur Pit Gas Recovery (SPGR) Project: The purpose of the SPGR Project is to recover vapors from the SRU sulfur pits. The vapors from the sulfur pits will be recycled to the SRU for processing. There will be a reduction in sulfur dioxide emissions from the Thermal Oxidizer to ensure compliance with the requirements of NSPS, Subpart J – Standards of Performance for Petroleum Refineries. The project includes an addition of a new blower or an eductor along with associated fugitive components, instrumentation and controls. This project is independent of the ULSD Project.

The ULSD and SPGR project actual emissions increase is estimated in tons per year as follows:

<u>Pollutant</u>	<u>PSD Significance</u>		<u>Netting Analysis</u>
	<u>Emissions</u>	<u>Levels</u>	<u>Required</u>
PM ₁₀	0.63	15.00	No
SO ₂	1.71	40.00	No
NO _x	13.43	40.00	No
CO	3.42	100.00	No
VOC	10.58	40.00	No

Total permitted emissions from the SRU, HDS, AMU, SWS, WGS, BRU and LPG based on the current operating conditions which reflect the updated emission factors and the modifications in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions</u>
PM ₁₀	6.48
SO ₂	66.43
NO _x	235.23
CO	385.82
VOC	258.70

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IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NSPS, and NESHAP. Prevention of Significant Deterioration does not apply. The facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The Air Toxic Compliance plan was approved on March 13, 1996, the LDAR provisions were approved on October 11, 1996 and the SOCMi HON wastewater provisions were approved on May 21, 1996. The facility has submitted a Part 1 application as required by the Clean Air Act Amendments 112(j).

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, Louisiana and The St. Bernard Voice, Arabi, Louisiana, on ***** **, 2006. Written and oral comments received during the comment period from the general public and organizations will be considered before issuing the permit. Copies of the public notice were mailed out to individuals on the mailing list maintained by Office of Environmental Services on ***** **, 2006. The proposed permit was sent to EPA via e-mail on ***** **, 2006.

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VII. Effects on Ambient Air

Dispersion Model Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration ($\mu\text{g}/\text{m}^3$)	Louisiana Air Quality Standard (NAAQS) ($\mu\text{g}/\text{m}^3$)
None			

VIII. General Condition XVII Activities

SRU-HDS-BRU-WGS Units Planned Startup/Shutdown and Turnaround Activities
 1075 events/yr
 PM_{10} 1.53 tons/yr
 VOC 1.81 tons/yr

AMU-SWS-LPG Units Planned Startup/Shutdown and Turnaround Activities
 475 events/yr
 PM₁₀ 0.25 tons/yr
 VOC 2.41 tons/yr

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IX. Insignificant Activities

ID No.:	Description	Citation
-	SWS Unit Tank (Less than 250 gals)	LAC 33:III.501.B.5.A.2
-	Units Tanks (Less than 10,000 gals, 14 tanks)	LAC 33:III.501.B.5.A.3
-	BRU Unit Inorganic Tank (Less than 10,000 gals)	LAC 33:III.501.B.5.A.4
-	Process Stream Analyzers Emissions	LAC 33:III.501.B.5.A.9
-	Catalyst Changing Operations	LAC 33:III.501.B.5.A.11

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter																	
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2139	29*	51*	52	56	59
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	1	1	1	1	1			1		1			1	1	1	1	1	1
EQT191	39, HDS Heater (F-3300)			1	1	1												2	
EQT192	40, HDS Stripper Reboiler (F-3301)			1	1	1												2	
EQT193	46, SRU Train ½ Thermal Oxidizer (F-8003/8053)			1	1	1												1	
EQT194	50, Waste Gas Compressor No. 1 (K-400)			1	1	1											2		
EQT195	51, Waste Gas Compressor No. 2 (K-401)			1	1	1											2		
EQT196	52, Waste Gas Compressor No. 3 (K-402)			1	1	1											2		
EQT197	53, Waste Gas Compressor No. 4 (K-406)			1	1	1											2		
EQT198	SL, Sulfur Loading																	2	
EQT199	TK-8001, SRU Chemical Tank																	1	
EQT200	TK-8051, SRU Chemical Tank																	1	
EQT201	TK-8231, AMU Chemical Tank																	1	
EQT202	TK-8232, AMU Chemical Tank																	1	
EQT203	MPV, Miscellaneous Process Vents																2	1	
FUG009	FE-SRU, SRU-HDS-AMU-SWS etc. Fugitives												1	1			1		

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5	9	11	13	15	2103	2111	2113	2121	2115	2141	17	2139	29*	51*	52	56	59	
KEY TO MATRIX																				
1	- The regulations have applicable requirements which apply to this particular emission source.																			
	- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.																			
2	- The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.																			
3	- The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.																			
Blank	- The regulations clearly do not apply to this type of emission source.																			
*	The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable.																			

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR					
		A	Db	Dc	J	Kb	XX	GGG	QQQ	A	J	M	V	FF	A	F	G	R	CC	UUU	4Zs	5Ds	68	82	
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	1								1	1	1	1						1			1	1		
QT191	39, HDS Heater (F-3300)				1																		2		
QT192	40, HDS Stripper Reboiler (F-3301)				1																		2		
QT193	46, SRU Train $\frac{1}{2}$ Thermal Oxidizer (F-8003/8053)				1																				
QT194	50, Waste Gas Compressor No. 1 (K-400)				2																		2		
QT195	51, Waste Gas Compressor No. 2 (K-401)				2																		2		
QT196	52, Waste Gas Compressor No. 3 (K-402)				2																		2		
QT197	53, Waste Gas Compressor No. 4 (K-406)				2																		1		
QT198	SL, Sulfur Loading																					2	2		

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5. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61										40 CFR				
		A	Db	Dc	J	Kb	XX	GGG	QQQ	A	J	M	V	FF	A	F	G	R	CC	UUU	4Zs	5Ds	68	82		
QT199	TK-8001, SRU Chemical Tank					2			2																	
QT200	TK-8051, SRU Chemical Tank					2			2																	
QT201	TK-8231, AMU Chemical Tank					2			2																	
QT202	TK-8232, AMU Chemical Tank					2			2																	
QT203	MPV, Miscellaneous Process Vents																									
UG009	FE-SRU, SRU-HDS-AMU-SWS etc. Fugitives									1	1/2									1	1					

KEY TO MATRIX

- The regulations have applicable requirements which apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
- Blank - The regulations clearly do not apply to this type of emission source.

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
GRP031 FCC and Alky Units	Compliance Assurance Monitoring for Major Stationary Sources	Exempt	40 CFR 64.2(b)	The initial TV application was deemed complete by LDEQ before April 20, 1998.
EQT191 and EQT192 39, HDS Heater (F-3300) and 40, HDS Stripper Reboiler (F-3301)	Emission Standard for Particulate Matter	Does not apply	LAC 33:III.1301.B	Heater indirectly heats process material
	Comprehensive Toxic Air Pollutant Emission Control Program NESHAP, Subpart DDDDD – Boilers and Process Heaters	Exempt	LAC 33:III.5105.B.3.a 40 CFR 63.7506(b)	Burns refinery fuel gas – Group 1 Virgin Fossil Fuel
EQT193 46, SRU Train ½ Thermal Oxidizer (F-8003/8053)	40 CFR 63, Subpart CC – NESHAP from Petroleum Refineries	Does not apply	40 CFR 63.640(d)(4)	The facility has submitted the initial notification on March 10, 2005 as requirement of 40 CFR 63.9(b)
EQT194, EQT195, EQT196 50, 51, 52, Waste Gas Compressors No. 1 thru 3 (K-400, 401, 402)	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.a	Sulfur Plants are not affected sources
	NSPS, Subpart J – Standards of Performance for Petroleum Refineries NESHAP, Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines	Does not apply	40 CFR 60.100 40 CFR 63.6590(a)	Burns natural gas – Group 1 Virgin Fossil Fuel Constructed prior to June 11, 1973 Rated capacity less than 500 hp

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SULFUR RECOVERY UNIT, HYDRODESULFURIZATION, AMINE TREATING UNIT, SOUR WATER STRIPPER, WASTE GAS SYSTEM, BENZENE RECOVERY UNIT AND LIQUEFIED PETROLEUM GAS RECOVERY
AGENCY INTEREST NO. 1376
CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY
CHALMETTE, ST. BERNARD PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT197 53, Waste Gas Compressor No. 4 (K-406)	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33:III.5105.B.3.a	Burns natural gas – Group 1 Virgin Fossil Fuel
EQT198 SL, Sulfur Loading	NSPS, Subpart J – Standards of Performance for Petroleum Refineries Chapter 21, Control of Organic Compounds - Loading	Does not apply	40 CFR 60.101	Does not burn refinery fuel gas therefore not a combustion device
	NSPS, Subpart XX - Standards of Performance for Bulk Gasoline Terminals	Does not apply	LAC 33:III.2107.A	The total vapor pressure of the material loaded is less than 1.5 psia
	NESHAP, Subpart R – Gasoline Distribution Facilities	Does not apply	40 CFR 60.500	Not a Bulk Gasoline Terminal
	40 CFR 63, Subpart CC – NESHAP from Petroleum Refineries	Does not apply	40 CFR 63.421	Not a Bulk Gasoline Terminal
	Chapter 21, Control of Emissions of Organic Compounds – Storage of VOC	Does not apply	LAC 33:III.2103.A	Does not meet the definition of a gasoline loading rack
EQT199, EQT200, EQT201, EQT202 TK-8001, 8051, 8231, 8232 Chemical Tanks (SRU/AMU)	NSPS, Subpart K, Ka, Kb – Standards for Petroleum Liquids and VOC Storage Tanks	Does not apply	40 CFR 60.110 40 CFR 60.110a 40 CFR 60.110b	Vapor pressure of the material stored in the tank is less than 1.5 psia
	NSPS, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Does not apply	40 CFR 60.690(a)	The tanks are not part of the affected facility

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SULFUR RECOVERY UNIT, HYDRODESULFURIZATION, AMINE TREATING UNIT, SOUR WATER STRIPPER, WASTE GAS SYSTEM, BENZENE RECOVERY UNIT AND LIQUEFIED PETROLEUM GAS RECOVERY
AGENCY INTEREST NO. 1376
CHALMETTE REFINING, L.L.C., CHALMETTE REFINERY
CHALMETTE, ST. BERNARD PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
FUG005 FCC and Alky Process Fugitives	NSPS, Subpart QQQ – Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	Applicability Determination	40 CFR 60.690	Currently under review. Permittee shall update or modify the permit based on the determination made under the settlement.
	NESHAP, Subpart V – National Emission Standard for Equipment Leaks of VHAP	Does not apply	40 CFR 61.240(a)	Streams contain less than 10% by weight of VHAP
EQT203 MPV, Miscellaneous Process Vents	Control of Organic Compounds – Waste Gas Disposal	Exempt	LAC 33:III.2115	Subject to NESHAP, 40 CFR 63, Subpart CC and emissions routed to Flare No. 2, Permit No. 3016-V0

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

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emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a

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written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

- 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
- 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
- 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
- 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
- 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
- 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

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- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT

GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 14, 1996 and an updated and revised application and EIQ dated November 14, 2005, and additional information as of February 8, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

LOUISIANA AIR EMISSION PERMIT

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- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December

LOUISIANA AIR EMISSION PERMIT

GENERAL CONDITIONS

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

LOUISIANA AIR EMISSION PERMIT

GENERAL CONDITIONS

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

All IP: 1376 Chalmette Refining LLC : Chalmette Refinery

Activity Number PEB19960010

Downloaded At: 11:30 20 May 2009

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Name	D	User Group	Phone (Type)	Relationship
		Start Date		
Chalmette Refining LLC - Chalmette Refinery	2500-00005	CDS Number	5042320276 (WP)	Katrina Response Contact for
Chalmette Refining LLC - Chalmette Refinery	2500-0005	Emission Inventory	5042811989 (WP)	Radiation Safety Officer for
Mobil Oil Corp	3-5401570	Federal Tax ID	5042811989 (WP)	Air Permit Contact For
Chalmette Refining LLC	AD008179707	Hazardous Waste Notification	5042811989 (WP)	Radiation Contact For
GPRB Baselines	PPMTICA	Hazardous Waste Permitting		
Chalmette Refining	00597	Inactive & Abandoned Sites		
WPC File Number	_AD004260	LPDES Permit #	50422-2003	
WPC State Permit Number	WP0569	LWDPS Permit #	06-25-2003	
WPC State Permit Number	WP3391	LWDPS Permit #	06-25-2003	
Radioactive Material License	-A2247-L01	Radiation License Number	01-19-1999	
X-Ray Registration Number	32284	Radiation X-ray Registration Number	11-21-1999	
Mobil Oil Corp	GD-087-1774	Solid Waste	01-08-2002	
Site ID #		Solid Waste Facility No.	11-21-1999	
Exxon Co USA - Chalmette Terminal	19637	TEMPO Merge	04-24-2001	
Mobil Oil Corp	886173	TEMPO Merge	04-26-2001	
ExxonMobil Oil Corp - Chalmette Refining LLC	338796	TEMPO Merge	12-16-2003	
Mobil Oil Corp - Chalmette Refinery	444916	TEMPO Merge	05-22-2001	
Chalmette Refining LLC - A Delaware Ltd Liability Co	504047	TEMPO Merge	03-28-2001	
Mobil Oil Corp - Chalmette Refinery	417202	TEMPO Merge	10-02-2001	
Toxic Emissions Data Inventory #	2500-0005	Toxic Emissions Data Inventory #	01-01-1991	
TRI #	701143TNCL500WE	Toxic Release Inventory	07-09-2004	
Motor Fuel Delivery Certificate #	01-269	Underground Storage Tanks	08-07-2002	
UST Facility ID (from UST legacy data)	44-015380	Underground Storage Tanks	10-12-2002	
500 W St Bernard Hwy		Main FAX:	5042811365	
Chalmette, LA 700441007		Main Phone:	5042811212	
PO Box 1007				
Chalmette, LA 700441007				
Robert Cooper				
Claudine Gorman				
Claudine Gorman				
Claudine Gorman				

Physical location:

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General Information

AI ID: 1376 Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960010

Permit Number: 3004-V0

Air - Title V Regular Permit Initial

Related People:	Name	Mailing Address	Phone (Type)	Relationship
Claudine Gorman	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Accident Prevention Contact for
Claudine Gorman	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Solid Waste Billing Party for
Claudine Gorman	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Haz. Waste Billing Party for
Claudine Gorman	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Water Billing Party for
Claudine Gorman	Claudine Gorman	PO Box 1007 Chalmette, LA 700441007	5042811989 (WP)	Accident Prevention Billing Party for

Related Organizations:	Name	Address	Phone (Type)	Relationship
Chalmette Refining LLC	Chalmette Refining LLC	PO Box 1007 Chalmette, LA 700441007		Air Billing Party for
Chalmette Refining LLC	Chalmette Refining LLC	PO Box 1007 Chalmette, LA 700441007		Radiation License Billing Party for
Chalmette Refining LLC	Chalmette Refining LLC	PO Box 1007 Chalmette, LA 700441007		Owns
ExxonMobil Oil Corp	ExxonMobil Oil Corp	500 W St Bernard Hwy Chalmette, LA 70043		Radiation Registration Billing Party for
ExxonMobil Oil Corp	ExxonMobil Oil Corp	PO Box 1007 Chalmette, LA 700441007		Accident Prevention Billing Party for
ExxonMobil Oil Corp	ExxonMobil Oil Corp	PO Box 1007 Chalmette, LA 700441007		UST Billing Party for
				Operates

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery
 Activity Number: PER19960014
 Permit Number: 3023-V0
 Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT191	39. HDS Heater (F-3300)		83 MM BTU/hr	51 MM BTU/hr		8760 hr/yr (All Year)
EQT192	40. HDS Stripper Reboiler (F-3301)		64 MM BTU/hr	32 MM BTU/hr		8760 hr/yr (All Year)
EQT193	46. SRU Train 1/2 Thermal Oxidizer (F-8003/8053)		60 MM BTU/hr	51 MM BTU/hr		8760 hr/yr (All Year)
EQT194	50. Waste Gas Compressor No. 1 (K-400)		4 MM BTU/hr	3 MM BTU/hr		8760 hr/yr (All Year)
EQT195	51. Waste Gas Compressor No. 2 (K-401)		4 MM BTU/hr	3 MM BTU/hr		8760 hr/yr (All Year)
EQT196	52. Waste Gas Compressor No. 3 (K-402)		8 MM BTU/hr	5 MM BTU/hr		8760 hr/yr (All Year)
EQT197	53. Waste Gas Compressor No. 4 (K-406)		10 MM BTU/hr	9 MM BTU/hr		8760 hr/yr (All Year)
EQT198	SL, Sulfur Loading		600 long tons/day	400 long tons/day		660 hr/yr (All Year)
EQT199	TK-8001, SRU Chemical Tank	17000 gallons				8760 hr/yr (All Year)
EQT200	TK-8051, SRU Chemical Tank	17000 gallons				8760 hr/yr (All Year)
EQT201	TK-8231, AMU Chemical Tank	15500 gallons				8760 hr/yr (All Year)
EQT202	TK-8232, AMU Chemical Tank	65000 gallons				8760 hr/yr (All Year)
EQT203	MPV, Miscellaneous Process Vents					8760 hr/yr (All Year)
FUG009	FE-SRU, SRU-HDS-AMU-SWS etc. Fugitives					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT191 39, HDS Heater (F-3300)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT192 40, HDS Stripper Reboiler (F-3301)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT193 46, SRU Train 1/2 Thermal Oxidizer (F-8003/8053)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT194 50, Waste Gas Compressor No. 1 (K-400)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT195 51, Waste Gas Compressor No. 2 (K-401)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT196 52, Waste Gas Compressor No. 3 (K-402)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT197 53, Waste Gas Compressor No. 4 (K-406)
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT198 SL, Sulfur Loading
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT199 TK-8001, SRU Chemical Tank
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT200 TK-8051, SRU Chemical Tank
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT201 TK-8231, AMU Chemical Tank
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	EQT202 TK-8232, AMU Chemical Tank
GRP032	SRU-HDS-AMU-SWS-WGS-BRU-LPG	FUG9 FE-SRU, SRU-HDS-AMU-SWS etc. Fugitives

Relationships:

Stack Information:	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Height (feet)	Temperature (°F)
EQT191 39, HDS Heater (F-3300)	30.8	64900	5	100.1	470

INVENTORIES

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery
 Activity Number: PER19960014
 Permit Number: 3023-V0
 Air - Title V Regular Permit Initial

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT192 40, HDS Stripper Reboiler (F-3301)	22.6	58200	5.2		149.9	590
EQT193 46, SRU Train 1/2 Thermal Oxidizer (F-8003/8053)	54.5	99600	4		157.2	800
EQT194 50, Waste Gas Compressor No. 1 (K-400)	.1	10	3.3		18	400
EQT195 51, Waste Gas Compressor No. 2 (K-401)	.1	10	3.3		18	400
EQT196 52, Waste Gas Compressor No. 3 (K-402)	.1	10	3.3		24.9	400
EQT197 53, Waste Gas Compressor No. 4 (K-406)	.1	10	3.3		24.9	400
EQT199 TK-8001, SRU Chemical Tank			13		17	
EQT200 TK-8051, SRU Chemical Tank			13		17	
EQT201 TK-8231, AMU Chemical Tank						
EQT202 TK-8232, AMU Chemical Tank						

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP032	1	1,000 BBL/DAY	0720 - Petroleum Refining (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 191	0.38	0.62	1.66	1.02	2.91	4.47	6.76	15.47	29.59	2.04	6.84	6.94	0.28	0.45	1.20
EQT 192	0.24	0.48	1.04	0.64	2.24	2.80	3.42	10.93	14.97	1.28	5.27	5.27	0.17	0.35	0.76
EQT 193	0.37	1.12	1.63	13.41	40.79	58.75	12.73	53.02	55.77	46.51	205.02	203.73	0.03	0.08	0.13
EQT 194	0.06	0.08	0.26	0.01	0.02	0.05	3.00	8.00	13.14	1.50	4.00	4.57	0.09	0.12	0.39
EQT 195	0.06	0.08	0.26	0.01	0.02	0.05	3.00	8.00	13.14	1.50	4.00	4.57	0.09	0.12	0.39
EQT 196	0.19	0.31	0.84	0.02	0.03	0.05	5.00	16.00	21.90	3.75	12.00	13.43	0.60	0.96	2.63
EQT 197	0.18	0.20	0.79	0.03	0.04	0.15	19.80	30.00	33.72	31.50	50.00	43.97	0.27	0.30	1.10
EQT 198				0.12	0.24	0.03									
SL															
EQT 199													0.001		
TK-8001															
EQT 200													0.001		
TK-8051															
EQT 201													0.001		
TK-8231															
EQT 202													0.001		
TK-8232															
FUG 009													57.54		
FE-SRU															252.03

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 6.48 tons/yr
 SO2: 66.43 tons/yr
 NOx: 235.23 tons/yr
 CO: 395.82 tons/yr
 VOC: 258.70 tons/yr

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

1,3-Butadiene			2,2,4-Trimethylpentane			Ammonia			Benzene			Biphenyl			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 198 SL	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001
EQT 199 TK-8001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001
EQT 200 TK-8051	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001
EQT 201 TK-8231	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001
EQT 202 TK-8232	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001	< 0.001	< 0.001	0.0001
FUG 009 FE-SRU	0.01	0.02	6.023	0.02	0.07	0.007	0.41	1.381	0.31	1.35	0.02	0.011	0.02	0.002	0.011

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

Carbon disulfide			Chlorobenzene			Cresol			Cumene			Dichloromethane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 198															
SL															
EQT 199															
TK-8001															
EQT 200															
TK-8051															
EQT 201															
TK-8231															
EQT 202															
TK-8232															
FUG 009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.10	0.01	0.004	< 0.001	< 0.001			
FE-SRU															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AIB: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: BEB1996001

Activity Table

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

Ethyl benzene				Hydrogen sulfide				Methanol				Methyl Tertiary Butyl Ether				Methyl ethyl ketone	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
EQT 198 SL				1.28	2.56	0.87											
EQT 199 TK-8001				< 0.001		< 0.001											
EQT 200 TK-8051				< 0.001		< 0.001											
EQT 201 TK-8231				< 0.001		< 0.001											
EQT 202 TK-8232				< 0.001		< 0.001											
FUG 009 FE-SRU	0.08			0.36	1.65	0.36	7.24	0.24		1.05	0.003	0.001	0.02	0.10	0.02	0.10	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-Y0

Air - Title V Regular Permit Initial

All phases

Subject Item	Methyl Isobutyl ketone			Naphthalene (and Methyl napht alenes)			Nickel (and compounds)			Phenol			Quinoline		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 198 SL															
EQT 199 TK-8001															
EQT 200 TK-8051															
EQT 201 TK-8231															
EQT 202 TK-8232															
FUG 009 FE-SRU	< 0.001		0.001	0.15	0.15	0.001	0.001	0.001	0.001	0.04	0.04	0.001	0.18	< 0.001	0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

Styrene			Sulfuric acid			Tetrachloroethylene			Toluene			Trichloroethylene			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 198 SL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 199 TK-8001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 200 TK-8051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 201 TK-8231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT 202 TK-8232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FUG 009 FE-SRU	0.005	0.003	0.002	0.002	< 0.001	0.001	0.57	2.43	< 0.001	0.001	< 0.001	0.001	-	-	-

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

Xylene (mixed isomers)			n-Hexane		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
ECT 198 SL					
ECT 199 TK-801		< 0.001	< 0.001		
ECT 200 TK-8051		< 0.001	< 0.001		
ECT 201 TK-8231		< 0.001	< 0.001		
ECT 202 TK-8232		< 0.001	< 0.001		
FUG 009 FE-SRU	0.65	2.84	0.94	4.16	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,3-Butadiene: 0.04 tons/yr
 2,2,4-Trimethylpentane: 0.07 tons/yr
 Ammonia: 1.81 tons/yr
 Benzene: 1.35 tons/yr
 Biphenyl: 0.11 tons/yr
 Carbon disulfide: <0.001 tons/yr
 Chlorobenzene: <0.001 tons/yr
 Cresol: 0.10 tons/yr
 Cumene: 0.04 tons/yr
 Dichloromethane: <0.001 tons/yr
 Ethyl benzene: 0.36 tons/yr
 Hydrogen sulfide: 8.11 tons/yr
 Methanol: 1.05 tons/yr
 Methyl ethyl ketone: 0.10 tons/yr
 Methyl isobutyl ketone: 0.001 tons/yr
 Methyl Tertiary Butyl Ether: 0.01 tons/yr
 n-Hexane: 4.13 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

All phases

Naphthalene (and Methyl naphthalenes): 0.67 tons/yr

Nickel (and compounds): <0.001 tons/yr

Phenol: 0.18 tons/yr

Quinoline: <0.001 tons/yr

Styrene: 0.02 tons/yr

Sulfuric acid: 0.01 tons/yr

Tetrachloroethylene: 0.001 tons/yr

Toluene: 2.48 tons/yr

Trichloroethylene: <0.001 tons/yr

Xylene (mixed isomers): 2.84 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-V0

Air - Title V Regular Permit Initial

EQT191 39, HDS Heater (F-3300)

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 2 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- 3 Sulfur dioxide <= 2000 ppmv. Shall comply with all the applicable requirements of 40 CFR 60, Subpart J. [LAC 33:III.1503]
- 4 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm) or less than 160 ppm on a three hour rolling average. Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour average
- 5 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 6 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 7 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 8 Permittee shall comply with all the applicable recordkeeping and reporting requirements of 40 CFR 60.107. [40 CFR 60.107]

EQT192 40, HDS Stripper Reboiler (F-3301)

- 9 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 10 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- 11 Sulfur dioxide <= 2000 ppmv. Shall comply with all the applicable requirements of 40 CFR 60, Subpart J. [LAC 33:III.1503]
- 12 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm) or less than 160 ppm on a three hour rolling average. Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 13 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 14 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 15 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 16 Permittee shall comply with all the applicable recordkeeping and reporting requirements of 40 CFR 60.107. [40 CFR 60.107]

EQT193 46, SRU Train 1/2 Thermal Oxidizer (F-8003/B053)

SPECIFIC REQUIREMENTS

AI ID: 1376 - Chalmette Refining LLC - Chalmette Refinery

Activity Number: PER19960014

Permit Number: 3023-y0

Air - Title V Regular Permit Initial

EQT193 46, SRU Train 1/2 Thermal Oxidizer (F-8003/8053)

17 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

18 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.11311.C]

Which Months: All Year Statistical Basis: Six-minute average

19 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with LAC 33:III.1511.A. [LAC 33:III.1511.A]

20 Compliance with all the applicable requirements of NSPS, 40 CFR 60, Subpart J is considered compliance with NESHAP, 40 CFR 63, Subpart UUU and LAC 33:III.Chapter 51. [LAC 33:III.5109.A, 40 CFR 63.1568(a)(1)]

21 Sulfur dioxide <= 250 ppmv @ 0% excess air (dry basis). Subpart J. [40 CFR 60.104(a)(2)(i), 40 CFR 63.1568(a)(1)]

Which Months: All Year Statistical Basis: None specified

22 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air. Subpart UUU. [40 CFR 63.1568(b)(1)]

Which Months: All Year Statistical Basis: None specified

23 Oxygen monitored by continuous emission monitor (CEM) continuously. Subpart UUU, Table 31. [40 CFR 63.1568(b)(1)]

Which Months: All Year Statistical Basis: None specified

24 Conduct performance test and initial compliance as per the requirements of NESHAP, 40 CFR 63, Subpart UUU. [40 CFR 63.1571]

25 Shall comply with all the applicable requirements of NESHAP, 40 CFR 63.1574. Shall submit notification of intent to conduct a performance test required under 40 CFR 63.7(b). Conduct a performance test, performance evaluation, design evaluation, opacity observation, visible emission observation, or other initial compliance demonstration of compliance status required under 40 CFR 63.9(h)(2)(ii). Shall prepare and implement an operation, maintenance, and monitoring plan for each affected source, control system, and continuous monitoring system required under 40 CFR 63.1574(f). Subpart UUU. [40 CFR 63.1574]

26 Shall submit reports as per the requirements of NESHAP, 40 CFR 63, Subpart UUU. [40 CFR 63.1575(b)]

EQT194 50, Waste Gas Compressor No. 1 (K-400)

27 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

28 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.11311.C]

Which Months: All Year Statistical Basis: Six-minute average

29 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

EQT195 51, Waste Gas Compressor No. 2 (K-401)

30 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

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EQT195 51, Waste Gas Compressor No. 2 (K-401)

31 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1.311.C]

Which Months: All Year Statistical Basis: Six-minute average

32 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1.31.3.C]

Which Months: All Year Statistical Basis: None specified

EQT196 52, Waste Gas Compressor No. 3 (K-402)

33 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1.101.B]

Which Months: All Year Statistical Basis: None specified

34 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1.311.C]

Which Months: All Year Statistical Basis: Six-minute average

35 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1.31.3.C]

Which Months: All Year Statistical Basis: None specified

EQT197 53, Waste Gas Compressor No. 4 (K-406)

36 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1.101.B]

Which Months: All Year Statistical Basis: None specified

37 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1.311.C]

Which Months: All Year Statistical Basis: Six-minute average

38 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1.313.C]

Which Months: All Year Statistical Basis: None specified

39 Formaldehyde <= 350 ppbv at 1.5% oxygen or reduce the formaldehyde emissions by 76% or more as per the requirements of NESHAP, 40 CFR 63.6600, Table 1.a. Subpart ZZZZ. [40 CFR 63.6600(a)]

Which Months: All Year Statistical Basis: None specified

40 Be in compliance with emission limitations in 40 CFR 63 Subpart ZZZZ at all times, except during periods of startup, shutdown and malfunction. Subpart ZZZZ. [40 CFR 63.6605(a)]

41 Operate and maintain in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6605(b)]

42 Shall conduct initial performance test or other initial compliance demonstration as per the provisions of NESHAP, 40 CFR 63.6610, Table 4, Item 2.a. Subpart ZZZZ. [40 CFR 63.6610]

43 Conduct subsequent performance tests semiannually as per the requirements of NESHAP, 40 CFR 63.6615, Table 3, Item 2. Subpart ZZZZ. [40 CFR 63.6615]

44 Conduct each performance tests according to the requirements of NESHAP, 40 CFR 63.7(e)(1) and under the specific conditions in NESHAP, 40 CFR 63, Subpart ZZZZ, Table 4. Subpart ZZZZ. [40 CFR 63.6620(b)]

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EQT197 53, Waste Gas Compressor No. 4 (K-406)

- 45 Determine compliance with the percent reduction requirement using equation 1 in 40 CFR 63.6620 if complying under the percent reduction of formaldehyde. Subpart ZZZZ.
[40 CFR 63.6620(e)]
- 46 Determine the engine percent load during a performance test by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. Subpart ZZZZ. [40 CFR 63.6620(i)]
- 47 Include a written report of the average percent load determination in the notification of compliance status. Include the following information: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, provide the model number of the measurement device, and an estimate of its accurate in percentage of true value. Subpart ZZZZ. [40 CFR 63.6620(i)]
- 48 Petition DEQ for operating limitations to be established during the initial performance test and continuously monitored thereafter, or for approval of no operating limitations. Do not conduct the initial performance test until after the petition has been approved by DEQ. If petitioning DEQ for approval of operating limitations, include the information described in 40 CFR 63.6620(g)(1) through (g)(5). If petitioning DEQ for approval of no operating limitations, include the information described in 40 CFR 63.6620(h)(1) through (h)(7). Subpart ZZZZ. [40 CFR 63.6620]
- 49 Permittee shall install a continuous parameter monitoring system (CPMS) as specified in NESHAP, 40 CFR 63.6625, Table 5, Item 4.a. Subpart ZZZZ. [40 CFR 63.6625(c)]
- 50 Demonstrate initial compliance with each applicable emission and operating limitation according to 40 CFR 63 Subpart ZZZZ Table 5. Subpart ZZZZ. [40 CFR 63.6630(a)]
- 51 Submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.6645. Subpart ZZZZ.
[40 CFR 63.6630(c)]
- 52 Report each instance in which each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ Tables 1a and 1b and Tables 2a and 2b were not met according to the requirements of 40 CFR 63.6650. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 53 Conduct a performance test to demonstrate that the required emission limitation applicable are being met, if the values of the operating parameters are reestablished. Subpart ZZZZ. [40 CFR 63.6640(b)]
- 54 Operate in accordance with the startup, shutdown, and malfunction plan during periods of startup, shutdown, and malfunction. Subpart ZZZZ. [40 CFR 63.6640(c)]
- 55 Submit all of the applicable notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (e), (g), and (h) by the dates specified, as specified in 40 CFR 63.6645(b) through (f). Subpart ZZZZ. [40 CFR 63.6645]
- 56 Report all deviations as defined in 40 CFR 63 Subpart ZZZZ in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). Subpart ZZZZ. [40 CFR 63.6650(f)]
- 57 Submit compliance status report. Due semiannually, by the 31st of January and July. Include the information in 40 CFR 63.6650(d)(1) and (d)(2) and 63.6650(e)(1) through (e)(2), if applicable. Subpart ZZZZ. [40 CFR 63.6650]
- 58 Submit startup, shutdown, and malfunction report. Due by fax or telephone within 2 working days after starting actions inconsistent with the startup, shutdown, and malfunction plan, and by letter within 7 working days after the end of the event unless alternate arrangements have been made with DEQ. Include in the report actions taken for the event, and the information specified in 40 CFR 63.10(d)(5)(ii). Subpart ZZZZ. [40 CFR 63.6650]
- 59 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.6655(a) through (d), as applicable. Subpart ZZZZ. [40 CFR 63.6655]
- 60 Keep records in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(a)]
- 61 Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in 40 CFR 63.10(b)(1). Subpart ZZZZ. [40 CFR 63.6660(b)]

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EQI197 53, Waste Gas Compressor No. 4 (K-406)

- 62 Keep each record readily accessible in hard copy or electronic form on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The remaining 3 years of records may be kept off-site. Subpart ZZZZ. [40 CFR 63.6660(c)]

EQI198 SL, Sulfur Loading

- 63 Emits Class III toxic air pollutants. No MACT is required. [LAC 33:III.5109.A]

EQI199 TK-8001, SRU Chemical Tank

- 64 Emits Class III toxic air pollutants. No MACT is required. [LAC 33:III.5109.A]

- 65 Group 2 storage vessel shall comply with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC. [40 CFR 63.654(i)]

EQT200 TK-8051, SRU Chemical Tank

- 66 Emits Class III toxic air pollutants. No MACT is required. [LAC 33:III.5109.A]

- 67 Group 2 storage vessel shall comply with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC. [40 CFR 63.654(i)]

EQT201 TK-8231, AMU Chemical Tank

- 68 Emits Class III toxic air pollutants. No MACT is required. [LAC 33:III.5109.A]

- 69 Group 2 storage vessel shall comply with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC. [40 CFR 63.654(i)]

EQT202 TK-8232, AMU Chemical Tank

- 70 Emits Class III toxic air pollutants. No MACT is required. [LAC 33:III.5109.A]

EQT203 MPV, Miscellaneous Process Vents

- 71 Group 2 storage vessel shall comply with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC. [40 CFR 63.654(i)]
- 72 Miscellaneous process vents are routed to an existing Flare No. 2 which complies with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC. [40 CFR 63.643]

FUG009 FE-SRU, SRU-HDS-AMU-SWS etc. Fugitives

- 73 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]

- 74 The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program. [LAC 33:III.5109.A]

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FUG009 FE-SRU, SRU-HDS-AMU-SWS etc. Fugitives

- 75 Shall comply with all the applicable requirements of NSPS, 40 CFR 60, Subpart GGG. Compliance with Subpart GGG is considered compliance with LAC 33:III.21.21. [40 CFR 60.590-593, LAC 33:III.21.21]
- 76 Shall comply with all the applicable requirements of 40 CFR 60.482-1 through 482-10 as per the approval letter dated March 24, 2005 by LDDEQ. Subpart GGG. [40 CFR 60.592(a)]
- 77 Sour Water Stripper and Benzene Recovery Units: Compliance with all the applicable requirements of 40 CFR 61, Subpart FF is considered compliance with 40 CFR 63, Subpart G. [40 CFR 63.1.49]
- 78 Compliance with all the applicable requirements of NESHAP, 40 CFR 63, Subpart CC is considered compliance with all the applicable requirements of LAC 33:III.Chapter 51. [40 CFR 63.640-655, LAC 33:III.51.09.A]
- 79 Shall comply with all the applicable requirements of 40 CFR 63.1.61 through 63.1.69, 63.1.71, 63.1.72, 63.1.75, 63.1.76, 63.1.77, 63.1.79, and 63.1.80 except as specified in 40 CFR 63.648(c)(1) through (c)(10) and (e) through (i). Subpart CC. [40 CFR 63.648(c)]
- 80 Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 81 Shall comply with all the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

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- 82 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1.103]
- 83 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1.09.B]
- 84 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1.303.B]
- 85 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.305.1-7. [LAC 33:III.1.305]
- 86 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1.51.3]
- 87 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.21.1.3.A.1-5. [LAC 33:III.21.13.A]
- 88 Control emissions of volatile organic compounds from petroleum refinery process unit turnarounds by pumping the liquid contents to storage and depressurizing the processing units to five psig (pounds per square inch gauge) or below before venting to the atmosphere. Control the vapors during the depressurization prior to venting to atmosphere by one of the applicable methods specified in LAC 33:III.21.5.A, B, and F. [LAC 33:III.21.41.A]
- 89 Keep records and determine compliance as specified in LAC 33:III.21.1.5.I, J, and K. [LAC 33:III.21.41.A]
- 90 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.21.9]
- 91 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 92 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]

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- 93 1,3-Butadiene <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 94 2,2,4-Trimethylpentane <= 0.07 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 95 Ammonia <= 1.81 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 96 Benzene <= 1.35 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 97 Biphenyl <= 0.11 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 98 Carbon disulfide < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 99 Chlorobenzene < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 100 Cresol <= 0.10 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 101 Cumene <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 102 Ethyl benzene <= 0.36 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 103 Hydrogen sulfide <= 8.11 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 104 Methanol <= 1.05 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 105 Methyl ethyl ketone <= 0.10 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 106 Methyl isobutyl ketone <= 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 107 Methyl Tertiary Butyl Ether <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 108 Dichloromethane < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 109 Naphthalene (and Methyl naphthalenes) <= 0.67 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 110 n-Hexane <= 4.13 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 111 Nickel (and compounds) < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 112 Particulate matter (10 microns or less) <= 6.48 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

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- 113 Sulfur dioxide <= 66.43 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 114 Nitrogen oxides <= 235.23 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 115 Carbon monoxide <= 385.82 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 116 Phenol <= 0.18 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 117 Quinoline < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 118 Styrene <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 119 Sulfuric acid <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 120 Tetrachloroethylene <= 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 121 Toluene <= 2.48 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 122 Trichloroethylene < 0.001 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 123 VOC, Total <= 258.70 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 124 Xylene (mixed isomers) <= 2.84 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 125 Until a settlement is reached with EPA and LDEQ on related air quality issues, the permittee shall operate all emission sources in compliance with the interim or permitted emission limitations, monitoring and reporting requirements contained in Appendix A of the Administrative Order on Consent dated May 25, 2005, in lieu of the emission limitations and associated requirements contained in Preventive Significant Deterioration Permit No. PSD-LA-199. Upon completion of a settlement on the related issues with EPA and LDEQ, the permittee shall, within three (3) months after issuance of all of the Part 70 permits for the entire refinery, submit an application to revise and update PSD-LA-199 to incorporate the settlement requirements in their entirety. [LAC 33:III.509, 40 CFR 52.21]
- 126 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51. Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 127 Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 128 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 129 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A. [LAC 33:III.5105.A.4]
- 130 Submit Annual Emissions Report (TEDR). Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

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- 131 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 132 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 133 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3923, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]
- 134 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.3]
- 135 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.i through viii. [LAC 33:III.5107.B.4]
- 136 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 137 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment, and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 138 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112. Table 51.2. [LAC 33:III.5109.B]
- 139 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 140 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 141 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 142 Submit notification in writing. Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.]
- 143 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1.]

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Activity Number: PER19960014
Permit Number: 3023-V0
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- 144 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 145 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 146 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 147 Submit certified letter. Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 148 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 149 Submit notification. Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 150 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 151 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 152 Submit performance evaluation report. Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 153 Submit notification in writing. Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 154 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 155 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 156 Submit report. Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 157 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 158 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 159 Submit plan. Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 160 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 161 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.51.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.51.F.1.f]
- 162 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]

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- 163 Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 164 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 165 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 166 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 167 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 168 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 169 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.1.30, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 170 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]
- 171 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 172 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]
- 173 Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits. [LAC 33:III.913]
- 174 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33:III.917.A]
- 175 No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. [LAC 33:III.917.B]
- 176 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 177 Permittee shall comply with all the applicable requirements for the stack height as specified in LAC 33:III.921. [LAC 33:III.921]
- 178 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:III. Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:III.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 179 No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. [LAC 33:III.929.A]
- 180 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 181 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

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- 182 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 183 Benzene: Permittee shall comply with all the applicable requirements of the alternative requirements of paragraphs 40 CFR 61.342(c) and (g). The permittee shall manage and treat facility waste with a flow weighted annual average water content of less than 10 percent in accordance with 40 CFR 61.342(c)(1). The benzene quantity for the wastes described in 40 CFR 61.342(c)(2) shall be equal to or less than 6.6 tons per year, as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)]
- 184 Permittee shall comply with all the applicable recordkeeping requirements as stated in 40 CFR 61.356 and all the applicable reporting requirements of 40 CFR 61.357. Subpart FF. [40 CFR 61.356(a)(4), 40 CFR 61.357]
- 185 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 186 Submit Notification of the intention to conduct a performance test. Due at least 30 days before the performance test is scheduled. Subpart CC. [40 CFR 63.642(d)(2)]
- 187 Conduct performance tests according to the provisions of 40 CFR 63.7(e), except conduct performance tests at maximum representative operating capacity for the process. During the performance test, operate the control device at either maximum or minimum representative operating conditions for monitored control device parameters, whichever results in lower emission reduction. Subpart CC. [40 CFR 63.642(d)(3)]
- 188 Keep copies of all applicable reports and records required by 40 CFR 63 Subpart CC for at least 5 years except as otherwise specified in 40 CFR 63 Subpart CC. Maintain all applicable records in such a manner that they can be readily accessed within 24 hours. Subpart CC. [40 CFR 63.642(e)]
- 189 Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(g)]
- 190 Control emissions of organic HAPs to the level represented by the equation in 40 CFR 63.642(g). Subpart CC. [40 CFR 63.642(h)]
- 191 Shall comply with all the applicable requirements of NESHAP, 40 CFR 61.340 through 61.355 of 40 CFR 61, Subpart FF, except as provided in 40 CFR 63.647(b). Subpart CC.
- 192 Shall comply with all the recordkeeping and reporting provisions in 40 CFR 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless complying with the wastewater provisions specified in 40 CFR 63.640(o)(2)(ii). Subpart CC. [40 CFR 63.654(a)]
- 193 Submit Periodic Report. Due no later than 60 days after the end of each 6-month period when any of the compliance exceptions specified in 40 CFR 63.654(g)(1) through (g)(6) occur. Include the information specified in 40 CFR 63.654(g)(1) through (g)(8). Subpart CC. [40 CFR 63.654(g)]
- 194 Submit reports of startup, shutdown, and malfunction required by 40 CFR 63.10(d)(5). Subpart CC. [40 CFR 63.654(h)(1)]
- 195 Submit the information specified in 40 CFR 63.654(h)(6)(i) through (iii), as applicable. Subpart CC. [40 CFR 63.654(h)(6)]
- 196 Retain a record of all reported performance test results required under 40 CFR 63.654(f) and (g)(7) as well as a complete test report, as described in 40 CFR 63.654(f)(2)(ii) for each emission point tested. Subpart CC. [40 CFR 63.654(i)(2)]
- 197 Retain all information required to be reported under 40 CFR 63.654(a) through (h) for five years. Subpart CC. [40 CFR 63.654(i)(4)]
- 198 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 199 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 200 Submit Title V monitoring results report: Due semiannually, by March 31 and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 201 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

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- 202 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
203 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.5(b)]